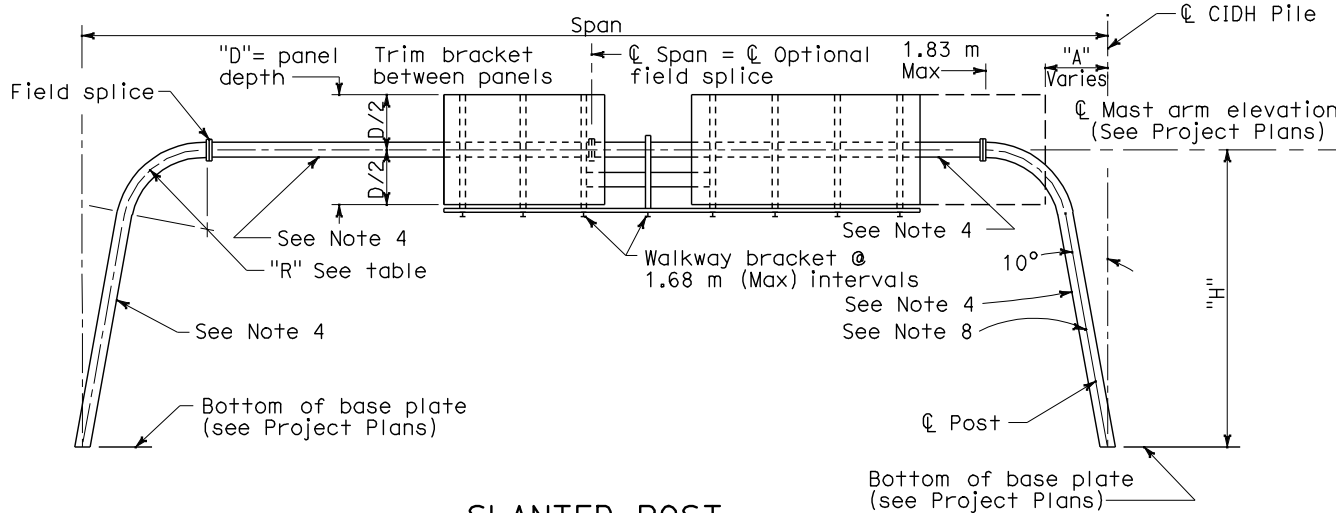
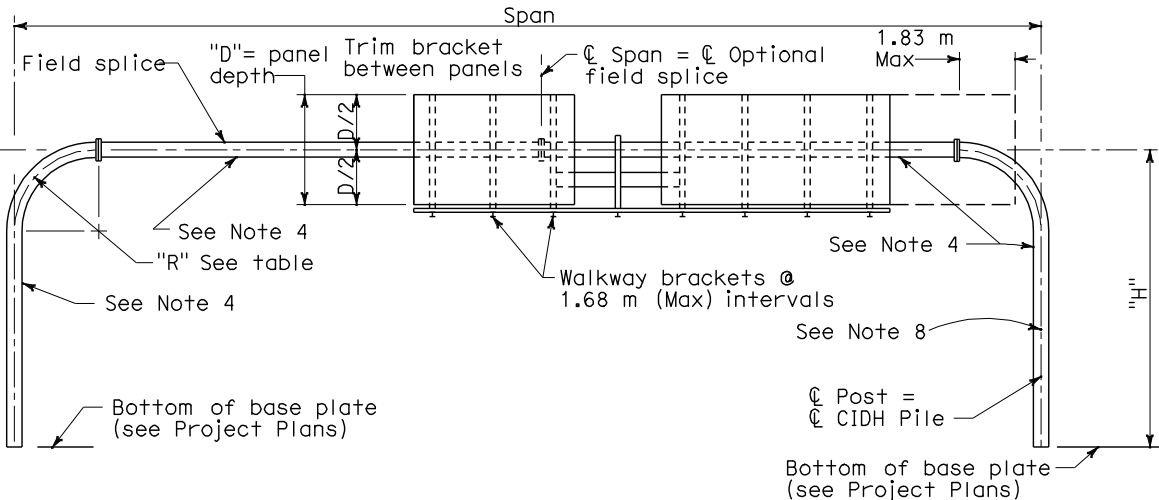


CAMBER DIAGRAM



SLANTED POST



VERTICAL POST

NOTES

- 1. The maximum sign panel overlap onto elbow shall not exceed 1.83 m from the field splice.
- 2. When several sign panels are to be installed with spaces between panels, the total sign panel length is the sum of individual sign panel lengths only.
- 3. For spans ranging from 15.24 m to 44.20 m, maximum sign panel coverage is as follows:
 - a) For slanted post type: Span - "A" on both sides from \mathcal{C} of CIDH Pile.
 - b) For vertical post type: Span - 1.83 m on both sides from \mathcal{C} of CIDH Pile.
- 4. All posts between base plate and field plate splice shall be as scheduled in table. All mast arms are standard pipe.
- 5. Before any portion of sign frame is assembled in its final position, the Contractor shall demonstrate to the Engineer by preassembly or other approved methods that the span length of the frame, with no load condition, is within ± 13 mm of field measured span length between foundations.
- 6. If sign frames are erected as one unit, they shall be adequately suspended to avoid distortions or changes in span lengths between base plates.
- 7. At final position of post, all top and bottom anchor bolt nuts shall be snug tighten against base plate.
- 8. Drill and tap for 41C chase nipple and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic. See Standard Plan ES-15C.
- 9. Maximum difference between post heights on an individual frame = 1.5 m.
- 10. For standard pipe members(mast arms) with lengths greater than 24 m, an optional field splice will be permitted at the centerline of span to facilitate hauling operations.
- 11. NPS = Nominal Pipe Size.
- 12. R = Radius of 90° elbow.
- 13. Post type numbers (#) shown in Table A equate to the Roman Numeral post type numbers shown in Tables B and C, same specification of pipe post.



DIST

COUNTY

ROUTE

KILOMETER POST TOTAL PROJECT

SHEET NO.

TOTAL SHEETS

REGISTERED CIVIL ENGINEER

January 24, 2005

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

REGISTERED PROFESSIONAL ENGINEER

Tillat Sattar

No. C42892

Exp. 03-31-2006

CIVIL

STATE OF CALIFORNIA

To accompany plans dated _____

TABLE A

"D" (mm)	"D" (m)	"H" (m)	POST TYPE # FOR SPAN LENGTH BELOW									
			42.68 m to 44.21 m	39.63 m to 42.38 m	36.59 m to 39.33 m	33.54 m to 36.28 m	30.49 m to 33.23 m	27.44 m to 30.18 m	24.39 m to 27.13 m	21.34 m to 24.09 m	18.29 m to 21.04 m	15.24 m to 17.99 m
3048	3.05	8.84	6	6	6	6	5	5	4	3	3	2
3048	3.05	8.23	6	6	6	5	5	4	4	3	2	2
3048	3.05	7.62	6	6	5	5	4	4	3	3	2	2
3048	3.05	7.01	6	5	5	4	4	4	3	2	2	1
3048	3.05	6.40	5	5	4	4	4	3	3	2	2	1
2794	2.79	8.84	6	6	6	5	5	4	4	3	2	2
2794	2.79	8.23	6	6	5	5	4	4	3	3	2	2
2794	2.79	7.62	5	5	5	4	4	4	3	2	2	1
2794	2.79	7.01	5	5	4	4	4	3	3	2	2	1
2794	2.79	6.40	5	5	4	4	3	3	2	2	2	1
2540	2.54	8.84	6	5	5	5	4	4	3	3	2	2
2540	2.54	8.23	5	5	5	4	4	4	3	2	2	1
2540	2.54	7.62	5	5	4	4	4	3	3	2	2	1
2540	2.54	7.01	5	4	4	4	3	3	2	2	2	1
2540	2.54	6.40	5	4	4	3	3	2	2	2	1	1
2286	2.29	8.84	5	5	5	4	4	4	3	3	2	1
2286	2.29	8.23	5	5	4	4	4	3	2	2	2	1
2286	2.29	7.62	4	4	4	4	3	3	2	2	1	1
2286	2.29	7.01	4	4	4	3	3	2	2	2	1	1
2286	2.29	6.40	4	4	3	3	2	2	2	1	1	1
2032	2.03	8.84	5	4	4	4	3	3	2	2	2	1
2032	2.03	8.23	4	4	4	3	3	2	2	2	1	1
2032	2.03	7.62	4	4	4	3	3	2	2	2	1	1
2032	2.03	7.01	4	4	3	3	2	2	2	1	1	1
2032	2.03	6.40	4	3	3	2	2	2	1	1	1	1
1778	1.78	8.84	4	4	4	3	3	2	2	2	1	1
1778	1.78	8.23	4	4	3	3	2	2	2	1	1	1
1778	1.78	7.62	3	3	3	2	2	2	2	1	1	1
1778	1.78	7.01	3	3	2	2	2	2	1	1	1	1
1778	1.78	6.40	3	3	2	2	2	1	1	1	1	1

TABLE B
(See Notes 11 and 12)

Post Type #	Specification of pipe post	"R" radius (mm)	kg/m
I	pipe NPS 20 x 12.7 tk	3658	154.9
II	pipe NPS 24 x 12.7 tk	3658	186.8
III	pipe NPS 24 x 15.9 tk	3658	232.2
IV	pipe NPS 30 x 12.7 tk	3658	234.5
V	pipe NPS 30 x 15.9 tk	3658	291.7
VI	pipe NPS 30 x 19.05 tk	3658	348.2

TABLE C

CAMBER			
Post type #	Span length (m)	X (mm)	Y (mm)
II	15.24 to 36.3	57	89
II	36.6 to 44.2	95	127
III	15.24 to 36.3	57	89
III	36.6 to 44.2	95	127
IV	15.24 to 36.3	57	89
IV	36.6 to 44.2	95	127
V	15.24 to 36.3	57	89
V	36.6 to 44.2	95	127
VI	15.24 to 36.3	57	89
VI	36.6 to 44.2	95	127

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGNS-TUBULAR
TWO POST TYPE
LAYOUT AND PIPE SELECTION

NO SCALE

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

RSP S32 DATED JANUARY 24, 2005 SUPERSEDES STANDARD PLAN S32
DATED JULY 1, 2004-PAGE 334 OF THE STANDARD PLANS BOOK DATED JULY 2004.

REVISED STANDARD PLAN RSP S32